

JAPAN

同郵便物番号 Item number

EE 471768295 JP

4 発出年月日 Date mailed

April 21, 1995

8 From

(ご依頼主)

ADACHI INTERNATIONAL
MNagoyaseni Building 7F
9-27 Nishiki 2-chome
Naka-ku, Nagoya 460

9 Postal code

JAPAN

(郵便番号)

460

お客様番号 Customer's No.

D/IJ 450/99

7 ご依頼主電話番号 Telephone No.

(052) 231-7835

5 引受時刻

Time mailed

時 (Hour) 分 (Minute)

0 9 50

総重量

Total gross weight

1780 g

20 郵便料金

Postage paid

4660

円 (Yen)

備考

Remarks

TO

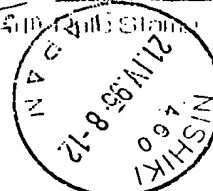
12 (お届け先)

The Commissioner of Patents and
Trademarks U.S.
DEPARTMENT OF COMMERCE
Washington, D.C. 20231,
U.S.A.

TEL



* E E 4 7 1 7 6 8 2 9 5 J P *



Customer receipt

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Receipt for International Mail

下記の郵便物を引き受けました。

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☐ EMS

EMS

番号

RR618390318JP

差出人住所氏名 Name and address of sender

ADACHI INTERNATIONAL NAGOYASENI BLDG
9-27 NISHIKI 2-CHOME NAKA-KU NAGOYA-SHI, AICHI 460

受取人住所氏名 Name and address of addressee

THE COMMISSIONER OF PATENTS AND TRADEMARKS U.S.
DEPARTMENT OF COMMERCE WASHINGTON, D.C. 20231 U.S.A.

郵便料金

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600

円 Yen

種類 Class

L

備考

Remarks

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以下は、保険付書状の場合のみ記入 Indicate only in case of insured letter

重量

Weight

全体 Gross

g

正味 Net

g

内容品 Contents

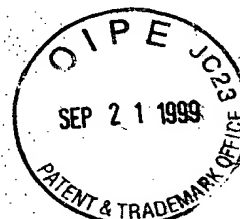
価格 Value

SDR

注 記入の際には、上記の□欄内に✓印を付すこと。

Note: Place a check (✓) in the appropriate box.

ユ09021



Translation of Form PCT/IPEA/409

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

International Application No. PCT/JP93/01615

International Filing Date November 8, 1993

International Classification H04M11/00.301.G06F3/00

Applicant PATOROMA RESEARCH YUGENKAISHA



1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 6 sheets.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings amended during international preliminary examination and/or containing rectifications made before this Authority.

(Refer to PCT rule 70.16 and PCT Administrative Instructions No. 607.)

These annexes consist of a total of 30 sheets.

3. This report contains indications relating to the following items:

I Basis of the report

V Reasoned statement with regard to novelty, inventive step of industrial applicability, according to PCT Article 35(2); citations and explanations supporting such statement.

Date of submission of the demand June 8, 1994

Date of completion of this report December 1, 1994

Name and mailing address of the IPEA/JP

Japanese Patent Office

Postal Code 100

4-3, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo

Authorized officer

Ryohei Otsuka 5K8627

Telephone No. 03-3581-1101 Access No. 3556

I. Basis of the report

This report has been drawn on the basis of:

the description, pages 1-3, 11-158 as originally filed;
pages 4-10, filed with the letter of October 24, 1994
claims 1-32 filed with the letter of October 24, 1994;
and
the drawings, Figs. 1-137 as originally filed.

V. Reasoned Statement under Article 35(2) with regard to novelty, inventive step of industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty(N): Claims 1,2,8,9,10,13,17-19,21-25 are novel.
Claims 3,11,20,27 are not novel.

Inventive Step (IS):

Claims 1,2,8,9,10,13,17-19,21-25, 29-32 have an inventive step.

Claims 4,5,6,7,12,14,15,16,26,28 have no inventive step.

2. Citations and Explanation

Claim 3 recites that the portable computer is provided with means for receiving map information from a main control unit and updating the information during communication. This feature is described in a newly cited document 1 (JP,A,5-191339 of Shikoku Nihon Denki Software Kabushiki Kaisha dated July 30, 1993), column 3, lines 15-20. Therefore, claim 3 is not novel in view of the document 1.

Claim 4 recites that the portable communicator is provided with process execution means for exchanging data via the wireless communication means with a financial agency center and executing the selected process and the means for printing on a passbook the result of the executed process. This feature is depicted in a newly cited document 2 (JP,A,2-153467 of Kabushiki Kaisha Toshiba dated June 13, 1990), Fig. 5. Also, the feature that the software housing medium is detachably attached to the portable terminal unit is depicted in a newly cited document 14 (JP,A,5-37443 of Casio Keisan Kabushiki Kaisha dated February 12, 1993), Fig. 1. In the transaction apparatus, payment process, current deposit process, ordinary deposit process and time deposit process are known.

Claim 4 has no inventive step in view of the documents 2,14.

In claim 5, the means for transmitting position coordinate data is provided in the portable terminal unit, which is described in a newly cited document 3 (JP,A,4-295995 of Sony Kabushiki Kaisha dated October 20, 1992), page 1, left column [Structure]. Also, the feature that the talk signal has another signal interposed for transmission is depicted in a newly cited document 15 (JP,A,5-95327 of Nihon Denki Kabushiki Kaisha dated April 16, 1993), Fig. 1.

Therefore, claim 5 has no inventive step in view of the documents 3 and 15.

Claim 6 recites that the position information is transmitted using voice signal, which is described in document 4 cited in the international search report (JP,A,4-231238 of Kenwood Corp. dated August 20, 1992), column 4, line 11. Claim 6 has no inventive step in view of the documents 3,4,15.

Claim 7 recites that position information is transmitted using facsimile signal, which is described in the document 4. Claim 7 has no inventive step in view of the documents 3,4,15.

The provision of the means for selecting and outputting signal according to priority from the connection specification memory means corresponding to a plurality of service networks in the portable terminal unit, as recited in claim 11, is described in a newly cited document 6 (JP,A,4-192728 of Murata Kikai Kabushiki Kaisha dated July 10, 1992), page 2, left upper column line 19 through right upper column line 6. Claim 11 is not novel in view of the document 6.

The communication terminal unit for selecting and displaying services provided by a communication company recited in claim 12 is depicted in a newly cited document 16 (JP,A,1-218163 of Kabushiki Kaisha Ricoh dated August 31, 1989), Fig. 5. Claim 12 has no inventive step in view of known portable communication terminal units and the document 16.

Claim 14 recites that the telephone number of the addressee is determined according to the electric wave form, which is described in the newly cited document 6 (JP,A,4-192728 of Murata Kikai Kabushiki Kaisha dated July 10, 1992), page 2, left upper column line 19 through right upper column line 6. Claim 14 has no inventive step in view of the documents 6,16.

The incorporation of the means for output of various information in the terminal unit recited in claim 15 is depicted in document 8 cited in the international search report (JP,A,4-18843 of Joshin Denki Co., Ltd. dated January 23, 1992), Fig. 1. Also, the means for displaying the signal corresponding to countenance and outputting is depicted in a newly cited document 17 (JP,A,61-199178 of Nihon Denshin Denwa Kabushiki Kaisha dated September 3, 1986), Fig. 1. Claim 15 has no inventive step in view of the documents 8,17.

Claim 16 recites that the means for transmitting route information is provided in the center unit, which is described in a newly cited document 10 (JP,A,5-79847 of Fujitsu Ten Kabushiki Kaisha dated March 30, 1993), column 3, lines 20-22. Also, the provision of the means for transmitting map information in the center unit is recited in a newly cited document 11 (JP,A,4-152724 of Kabushiki Kaisha Hitachi Seisakusho dated May 26, 1992), [claims]. The provision of the means for transmitting order information in the terminal unit is disclosed in the document 8. Claim 16 has no inventive step in view of the documents 8,10,11.

Claim 20 recites that image pickup means is adjacent to the display means, which is disclosed in the document 17. Claim 20 is not novel in view of the document 17.

The portable terminal for output of position coordinate data recited in claim 26 is disclosed in the document 4. The means for output of voice corresponding to position data is described in the document 5(JP,A,58-30615 of Kabushiki Kaisha Hitachi Seisakusho dated February 23, 1983), page 3, right lower column, lines 6-7. Claim 26 has no inventive step in view of the documents 4,5.

The data updating means recited in claim 27 is disclosed in the document 1. Claim 27 is not novel in view of the document 1.

Claim 28 recites the known feature that the mark is changed to the mark indicating execution. Claim 28 has no inventive step in view of the documents 8,17.

Translation of Form PCT/IPEA/408

PATENT COOPERATION TREATY

WRITTEN OPINION

To Tsutomu Adachi
Nagoyaseni Building 7F
9-27, Nishiki 2-chome,
Naka-ku, Nagoya-shi, Aichi-ken 460

Date of Mailing: 30 August 1994

A response can be filed within two months from the mailing date.

International Application No. PCT/JP93/01615

International Filing Date November 8, 1993

International Classification H04M11/00.301.G06F3/00

Applicant PATOROMA RESEARCH YUGENKAISHA

1. This constitutes the first written opinion by this International Preliminary Examining Authority.

2. This includes the following:

- I Basis of opinion
- V Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VIII Certain observations on the international application

4. The final due date for preparing the international preliminary examination report is March 7, 1995 under the provision of PCT Rule 69.2.

Name and mailing address of the IPEA/JP
Japanese Patent Office
Postal Code 100
4-3, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo

Authorized officer
Ryohei Otsuka 5K8627
Telephone No. 03-3581-1101 Access No. 3555

I. This written opinion has been prepared on the basis of:
the description, pages 1-3, 11-170 as originally filed;
pages 4-10, filed with the demand;
claims 1-26 filed with the demand; and
the drawings, Figs. 1-144 as originally filed.

V. Reasoned Statement under Article 35(2) with regard to novelty, inventive step of industrial applicability; citations and explanations supporting such statement

1. Opinion

Novelty: Claims 3-5, 7, 11-13, 20, 23, 26 are not novel.

Inventive Step:

Claims 1,2,9,10,17-19,21,22 have an inventive step.

Claims 6,8,14-16,24,25 have no inventive step.

2. Citations and Explanation

Claim 3 recites that the portable computer is provided with means for receiving map information from a main control unit and updating the information. This feature is described in a newly cited document 1 (JP,A,5-191339 of Shikoku Nihon Denki Software Kabushiki Kaisha dated July 30, 1993), column 3, lines 15-20. Therefore, claim 3 is not inventive in view of the document 1.

Claim 4 recites that the portable communicator is provided with process execution means for exchanging data via the wireless communication means with a financial agency center and executing the selected process and the means for printing on a passbook the result of the executed process. This feature is depicted in a newly cited document 2 (JP,A,2-153467 of Kabushiki Kaisha Toshiba dated June 13, 1990), Fig. 5. Therefore, claim 4 is not novel in view of the document 2. In the transaction apparatus, payment process, current deposit process, ordinary deposit process and time deposit process are known.

In claim 5, the means for transmitting position coordinate data is provided in the portable terminal unit, which is described in a newly cited document 3 (JP,A,4-295995 of Sony Kabushiki Kaisha dated October 20, 1992), page 1, left column [Structure]. Therefore, claim 5 is not novel in view of the document 3.

Claim 6 recites that the means for transmitting position information using voice signal is provided in the portable terminal unit, which is described in document 4 cited in the international search report (JP,A,4-231238 of Kenwood Corp. dated August 20, 1992), column 4, line 11. The output of the geographical status of the vicinity as the voice signal is described in a newly cited document 5 (JP,A,58-30615 of Kabushiki Kaisha Hitachi Seisakusho dated February 23, 1983), page 3, right lower column, lines 6-7. Claim 6 has no inventive step in view of the documents 4, 5.

Claim 7 recites that the means for transmitting position information using facsimile signal is provided in the portable terminal unit, which is described in the document 4. Claim 7 is not novel in view of the document 4.

Claim 8 has no inventive step in view of the documents 4,5.

The provision of the means for outputting signal from

the connection specification memory means in the portable terminal unit, as recited in claim 11, is described in a newly cited document 6 (JP,A,4-192728 of Murata Kikai Kabushiki Kaisha dated July 10, 1992), page 2, left upper column line 19 through right upper column line 6. Claim 11 is not novel in view of the document 6.

The provision of the means for selecting the content of service in the portable terminal, as recited in claim 12, is described in a newly cited document 7 (JP,A,4-120700 of Nihon Denki Home Electronics Kabushiki Kaisha dated April 21, 1992), page 2, right lower column, lines 2-6. Claim 12 is not novel in view of the document 7.

Claim 13 is not novel in view of the document 7.

Claim 14 recites that the telephone number of the addressee is determined according to the electric wave form, which is described in the newly cited document 6 (JP,A,4-192728 of Murata Kikai Kabushiki Kaisha dated July 10, 1992), page 2, left upper column line 19 through right upper column line 6. Claim 14 has no inventive step in view of the documents 6,7.

The incorporation of the means for output of various information in the terminal unit recited in claim 15 is depicted in document 8 cited in the international search report (JP,A,4-18843 of Joshin Denki Co., Ltd. dated January 23, 1992), Fig. 1. Also, the information output means for the output of the signal corresponding to countenance is depicted in a newly cited document 9 (JP,A,3-252772 of Nihon Denshin Denwa Kabushiki Kaisha dated November 12, 1991), Fig. 1. Claim 15 has no inventive step in view of the document 9.

Claim 16 recites that the means for transmitting route information is provided in the center unit, which is described in a newly cited document 10 (JP,A,5-79847 of Fujitsu Ten Kabushiki Kaisha dated March 30, 1993), column 3, lines 20-22. Also, the provision of the means for transmitting map information in the center unit is recited in a newly cited document 11 (JP,A,4-152724 of Kabushiki Kaisha Hitachi Seisakusho dated May 26, 1992), [claims]. Claim 16 has no inventive step in view of the documents 10,11.

Claim 20 is not novel in view of the document 9.

In claim 23, the portable terminal transmits the voice signal corresponding to the selected message, which is disclosed in a newly cited document 12 (JP,U,62-158963 of Fujitsu Ten Kabushiki Kaisha dated October 8, 1987). Claim 23 is not novel in view of the document 12.

The means for converting character data into voice signal recited in claim 24 is described in a newly cited document 13 (JP,A,63-242054 of Cannon Kabushiki Kaisha dated October 7, 1988), page 3, left upper column, lines 12-13. Claim 24 has no inventive step in view of the cited documents 12, 13.

The means for converting the voice signal into the character data recited in claim 25 is described in a newly cited document 14 (JP,A,63-288550 of Matsushita Denki Sangyo

Kabushiki Kaisha dated November 25, 1988), page 2, right lower column, lines 4-5. Claim 25 has no inventive step in view of the documents 13,14.

Claim 26 is not novel in view of the document 4.



特許協力条約に基づいて公開された国際出願

(51) 国際特許分類 5

H04M 11/00, G06F 3/00

A1

(11) 国際公開番号

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1993年11月8日 (08. 11. 93)

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特願平 4/298630	1992年11月9日 (09. 11. 92)	JP
特願平 4/331788	1992年12月11日 (11. 12. 92)	JP
特願平 5/7785	1993年1月20日 (20. 01. 93)	JP
特願平 5/72367	1993年3月30日 (30. 03. 93)	JP
特願平 5/104151	1993年4月30日 (30. 04. 93)	JP

(71) 出願人 (米国を除くすべての指定国について)

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(81) 指定国

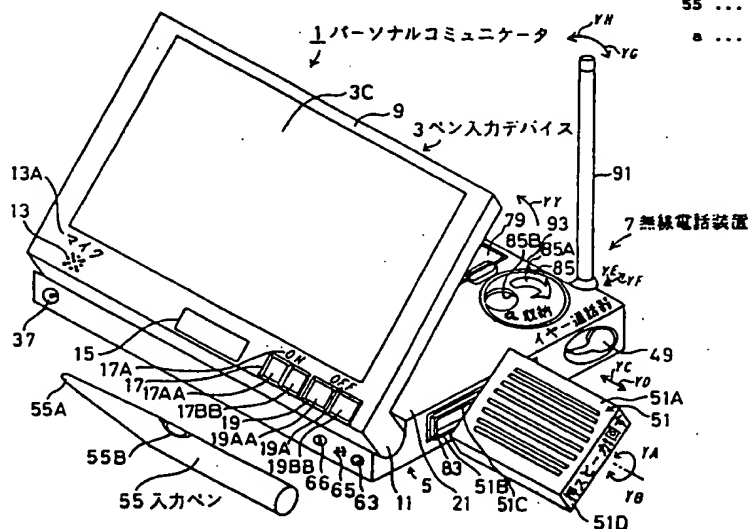
US, 欧州特許 (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(54) Title : PORTABLE COMMUNICATOR

(54) 発明の名称 携帯型コミュニケーター

(57) Abstract

This communicator makes it possible for the user to do telephone, facsimile, and data communication at any location. On a pen-input computer, a space eye (2), a telephone control system, a facsimile control system, and a data transmission system are mounted. All of them are operated by an input pen (55) or the space eye (2). The pen-input computer is connected to a wireless telephone equipment (7), and can be connected to a desired party through the public communication line. In order to make the most of the equipment of a GPS subscriber, the GPS subscriber device (8) is connected to the pen-input computer (3). The current location of the GPS scriber is found through the GPS subscriber device (8), and the data on the current location is transmitted to the party. Further, to make this communicator usable in any country, it is provided with means to connect it to a wireless telephone network of an individual service area of the country.



1 ... personal communicator

3 ... pen-input device

7 ... wireless telephone device

13A ... microphone

49 ... earphone

51D ... speaker rotates when pressed

55 ... input pen

a ... to fold up

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum)

Box No. I TITLE OF INVENTION

Portable Communicator

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

PATOROMA RESEARCH YUGENKAISHA

13-19, Nishiki 1-chome, Naka-ku, Nagoya-shi,
Aichi-ken, Japan

☐ This person is also inventor.

Telephone No.

Facsimile No.

Teleprinter No.

State (i.e. country) of nationality:
JAPAN

State (i.e. country) of residence: JAPAN

This person is applicant for the purposes of: ☐ all designated States ☒ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTORS

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

ENMEI Toshiharu

13-21, Moriyama 1-chome, Moriyama-ku,
Nagoya-shi, Aichi-ken, Japan

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below.)

State (i.e. country) of nationality: JAPAN

State (i.e. country) of residence: JAPAN

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

This person is:

☐ applicant only

☐ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below.)

State (i.e. country) of nationality:

State (i.e. country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative 	
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)</i> 8250 ADACHI Tsutomu Nagoyaseni Bldg. 7F, 9-27, Nishiki 2-chome, Naka-ku, Nagoya-shi, AICHI 460 JAPAN	Telephone No. 052-231-7835 Facsimile No. 052-231-0515 Teleprinter No. 442-2483
<input type="checkbox"/> Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	
Box No. V DESIGNATION OF STATES	
The following designations are hereby made under Rule 4.9(a) <i>(mark the applicable check-boxes; at least one must be marked):</i>	
Regional Patent	
<input checked="" type="checkbox"/> EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, DE Germany, DK Denmark, ES Spain, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT	
<input type="checkbox"/> OA OAPI Patent: Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Congo, Côte d'Ivoire, Gabon, Guinea, Mali, Mauritania, Senegal, Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT <i>(if other kind of protection or treatment desired, specify on dotted line)</i>	
National Patent <i>(if other kind of protection or treatment desired, specify on dotted line):</i>	
<input type="checkbox"/> AT Austria <input type="checkbox"/> AU Australia <input type="checkbox"/> BB Barbados <input type="checkbox"/> BG Bulgaria <input type="checkbox"/> BR Brazil <input type="checkbox"/> CA Canada <input type="checkbox"/> CH and LI Switzerland and Liechtenstein <input type="checkbox"/> CZ Czech Republic <input type="checkbox"/> DE Germany <input type="checkbox"/> DK Denmark <input type="checkbox"/> ES Spain <input type="checkbox"/> FI Finland <input type="checkbox"/> GB United Kingdom <input type="checkbox"/> HU Hungary <input type="checkbox"/> JP Japan <input type="checkbox"/> KP Democratic People's Republic of Korea <input type="checkbox"/> KR Republic of Korea <input type="checkbox"/> LK Sri Lanka <input type="checkbox"/> LU Luxembourg	<input type="checkbox"/> MG Madagascar <input type="checkbox"/> MN Mongolia <input type="checkbox"/> MW Malawi <input type="checkbox"/> NL Netherlands <input type="checkbox"/> NO Norway <input type="checkbox"/> NZ New Zealand <input type="checkbox"/> PL Poland <input type="checkbox"/> PT Portugal <input type="checkbox"/> RO Romania <input type="checkbox"/> RU Russian Federation <input type="checkbox"/> SD Sudan <input type="checkbox"/> SE Sweden <input type="checkbox"/> SK Slovak Republic <input type="checkbox"/> UA Ukraine <input checked="" type="checkbox"/> US United States of America Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet: <input type="checkbox"/> <input type="checkbox"/>
In addition to the designations made above, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except the designation(s) of The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. <i>(Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)</i>	

Supplemental Box *If the Supplemental Box is not used, this sheet need not be included in the request.*

Use this box in the following cases:

1. *If, in any of the Boxes, the space is insufficient to furnish all the information:*

in such case, write "Continuation of Box No. ..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient;

in particular:

 - (i) *if more than three persons are involved as applicants and/or inventors and no "continuation sheet" is available:*

in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III;
 - (ii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked:*

in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State or States (and/or, where applicable, European or OAPI patent) for the purposes of which the named person is applicant;
 - (iii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America:*

in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State or States (and/or, where applicable, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) *if, in addition to the agent(s) indicated in Box No. IV, there are further agents:*

in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) *if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," "certificate of addition," or "inventor's certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "Continuation" or "Continuation-in-part":*

in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) *if there are more than three earlier applications whose priority is claimed:*

in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
2. *If the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty:*

in such case, write "Statement Concerning Non-Prejudicial Disclosures or Exceptions to Lack of Novelty" and furnish that statement below.

[Continued from VI]

(4) Country	Japan
Filing Date	30.03.93
Application No.	Patent Application No. 5-72367

(5) Country	Japan
Filing Date	30.04.93
Application No.	Patent Application No. 5-104151

Box No. VI PRIORITY CLAIM

Further priority claims are indicated in the Supplemental Box

☒

The priority of the following earlier application(s) is hereby claimed:

Country (in which, or for which, the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or international application)
item (1) Japan	09.11.92	Patent Application No.4-298630	
item (2) Japan	11.12.92	Patent Application No.4-331788	
item (3) Japan	20.01.93	Patent Application No.5-7785	

Mark the following check-box if the certified copy of the earlier application is to be issued by the Office which for the purposes of the present international application is the receiving Office (a fee may be required):

☒ The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): (1), (2), (3), (4), (5)**Box No. VII EARLIER SEARCH**

Fill in where a search (international, international-type or other) by the International Searching Authority has already been carried out or requested and the Authority is now requested to base the international search, to the extent possible, on the results of that earlier search. Identify such search or request either by reference to the relevant application (or the translation thereof) or by reference to the search request:

Country (or regional Office):

Date (day/month/year):

Number:

Box No. VIII CHECK LIST

This international application contains the following number of sheets:

1. request : 4 sheets
 2. description : 158 sheets
 3. claims : 11 sheets
 4. abstract : 1 sheets
 5. drawings : 137 sheets

Total : 311 sheets

This international application is accompanied by the item(s) marked below:

1. ☒ separate signed power of attorney
 2. ☐ copy of general power of attorney
 3. ☐ statement explaining lack of signature
 4. ☐ priority document(s) identified in Box No. VI as item(s):
 5. ☒ fee calculation sheet
 6. ☐ separate indications concerning deposited microorganisms
 7. ☐ nucleotide and/or amino acid sequence listing (diskette)
 8. ☒ other (specify): Request for transmitting priority documents

Figure No. 1 of the drawings (if any) should accompany the abstract when it is published.

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

ADACHI Tsutomu (seal)

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority specified by the applicant: ISA /	
6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

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Date of receipt of the record copy by the International Bureau: